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WHAT IS CLAIMED IS:

	1.	A method of treating a disorder comprising implanting stem cells,
5		progeny thereof, or combinations thereof, into a gastrointestinal
		organ of a subject affected with the disorder.

- 2. The method of claim 1 wherein the implanted cells repopulate neurons, muscles, or other tissues.
- 3. The method of claim 1 wherein the cells provide a source of biological material for therapeutic treatment.
- 4. The method of claim 1 wherein the stem cells are selected from the group of multipotent, pluripotent, totipotent stem cells, and combinations thereof.
- 5. The method of claim 1 wherein the cells are neural stem cells.
- 6. The method of claim 5 wherein the cells thereof are derived from embryonic neural tissue, adult neural tissue, or combinations thereof.
- 7. The method of claim 1 wherein the gastrointestinal organ comprises a solid organ.
- 8. The method of claim 7 wherein the solid gastrointestinal organ is the liver, the gall bladder, or the pancreas.
- 9. The method of claim 1 wherein the gastrointestinal organ comprises a hollow organ.

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- 10. The method of claim 9 wherein the hollow gastrointestinal organ is the mouth, the esophagus, the stomach, or the bowels.
- The method of claim 1 wherein implanting cells into a gastrointestinal organ of a subject comprises administering the cells locally.
 - 12. The method of claim 11 wherein administering cells locally comprises injecting the cells into a wall of the gastrointestinal tract.
 - 13. The method of claim 1 wherein implanting cells into a gastrointestinal tract comprises administering the cells systemically.
 - 14. The method of claim 1 wherein the disorder comprises degenerative, immunologic/inflammatory, neoplastic, or idiopathic conditions of the gastrointestinal tract.
 - 15. A method of treating a disorder comprising implanting stem cells, progeny thereof, or combinations thereof, into a gastrointestinal organ of a subject affected with the disorder wherein the gastrointestinal organ comprises a solid organ or a hollow organ.
 - 16. A method of treating a disorder comprising implanting stem cells, progeny thereof, or combinations thereof, into a gastrointestinal organ of a subject affected with a disorder comprising degenerative, immunologic/inflammatory, neoplastic, or idiopathic conditions of the gastrointestinal tract, wherein the implanted cells repopulate neurons, muscles, or other tissues.

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- 17. A method of producing enhanced levels of insulin in a subject comprising implanting stem cells and/or progeny thereof into the pancreas of the subject.
- The method of claim 17 wherein the stem cells are selected from the group of multipotent, pluripotent, totipotent stem cells, and combinations thereof.
 - 19. The method of claim 17 wherein the cells are neural stem cells.
 - 20. The method of claim 17 wherein the cells thereof are derived from embryonic neural tissue, adult neural tissue, or combinations thereof.